

## **Focus Area 15: Injury and Violence Prevention**

**Objective 15-28** calls for reduction in the hospitalization rates for hip fractures among persons aged 65 years and over to: (a) 491.0 per 100,000 females; and (b) 450.5 per 100,000 males.

Hospital discharge data for 2000 indicates a total of 20,695 discharges among California resident females aged 65 and over with a principal diagnosis of hip fracture, which translates to an age-adjusted rate of 945.4 hospitalizations per 100,000 females (Figure 15-28a, Table 15-28a). Data for 2001 show 19,970 discharges at a rate of 877.4 per 100,000; data for 2002 show 19,150 discharges at a rate of 812.8 per 100,000; and data for 2003 show 18,623 discharges at a rate of 771.8 per 100,000. Although declining, these rates are significantly higher than the target set for females in the HP2010 objective.

Hip fracture hospitalizations for California resident males aged 65 and over numbered 6,918 in 2000, which translates to an age-adjusted rate of 479.5 per 100,000 males (Figure 15-28b, Table 15-28b). Data for 2001 show 6,965 discharges at a rate of 460.0 per 100,000; data for 2002 show 6,880 discharges at a rate of 434.4 per 100,000; and data for 2003 show 6,786 discharges at a rate of 414.1 per 100,000. Hospitalization rates for males are also declining, and were below the HP2010 target in 2002 and in 2003.

Examined by race and ethnicity, the highest hip fracture hospitalization rates among persons aged 65 and over were found for Whites (890.7 per 100,000 females and 476.4 per 100,000 males in 2003). These rates were significantly higher than those for all other racial and ethnic populations. The next highest rates were found for Hispanics/Latinos (517.8 per 100,000 females and 292.0 per 100,000 males in 2003), and the HP2010 objective was being met for males but not for females. Hospitalization rates for American Indians/Alaska Natives were unreliable due to the small number of events, except for females in 2002 and 2003. As of 2003 this HP2010 objective was being met for all female populations except Whites and Hispanics/Latinos, and for all male populations except Whites.

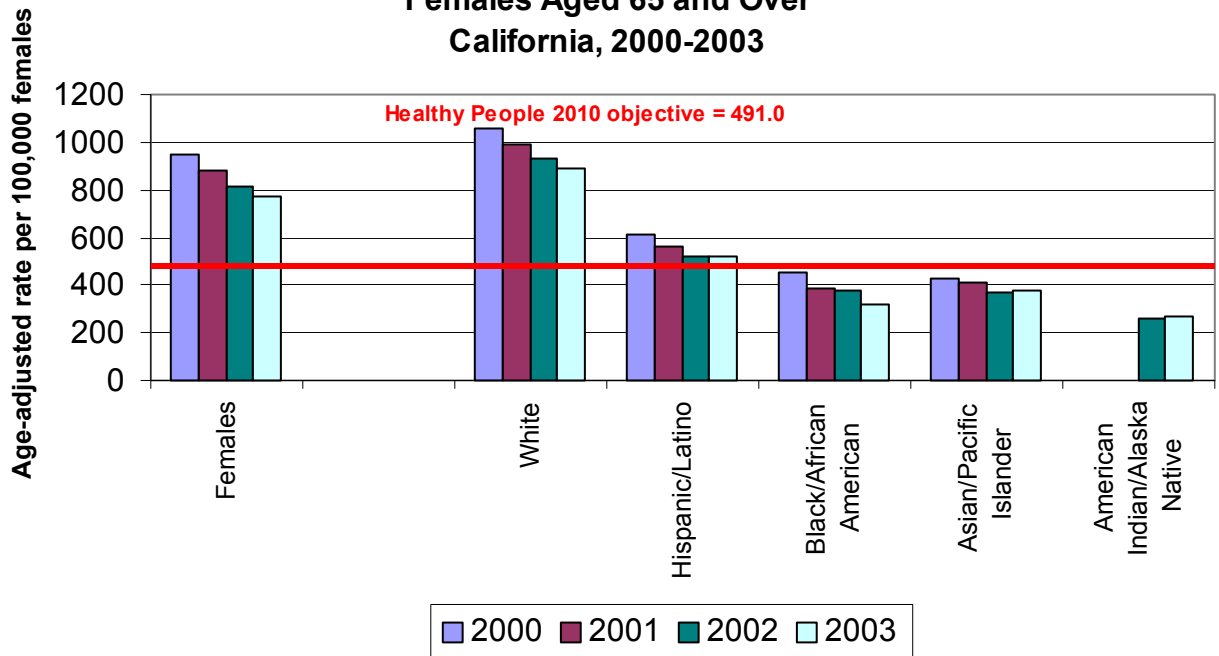
For more information on hip fractures, visit the CDHS Chronic Diseases and Injury Control (CDIC) Web site at: <http://www.dhs.ca.gov/ps/cdic/>

And the Epidemiology and Prevention for Injury Control (EPIC) Web site at: <http://www.dhs.ca.gov/epic/>

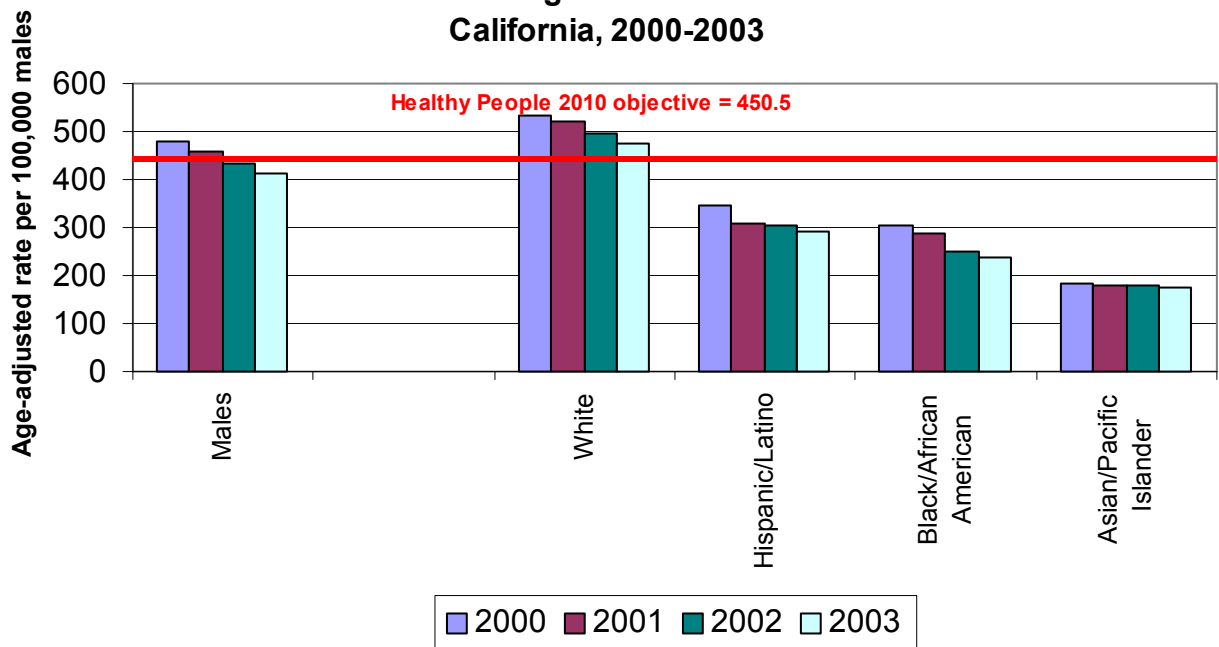
For more information on Healthy People 2010 objective 15-28, please visit:

<http://www.healthypeople.gov/Document/HTML/Volume2/15Injury.htm>  
and  
<http://www.healthypeople.gov/Document/html/tracking/od15.htm>

**Figure 15-28a**  
**Hip Fracture Hospitalization Rates**  
**Females Aged 65 and Over**  
**California, 2000-2003**



**Figure 15-28b**  
**Hip Fracture Hospitalization Rates**  
**Males Aged 65 and Over**  
**California, 2000-2003**



**Table 15-28a**  
**Hip Fracture Hospitalizations Among Females Aged 65 and Over**  
**California, 2000-2003**

Hip Fracture Hospitalizations Persons Aged 65> 2000					2001			
	Female		Lower	Upper	Female		Lower	Upper
	Number	Rate <sup>1</sup>	95% C.I.	95% C.I.	Number	Rate <sup>1</sup>	95% C.I.	95% C.I.
<b>Healthy People 2010 Target</b>		<b>491.0</b>				<b>491.0</b>		
<b>CALIFORNIA TOTAL</b>	20,695	945.4	932.5	958.3	19,970	877.4	865.3	889.6
<b>Race-Ethnicity</b>								
American Indian/Alaska Native	13	DSU	-----	-----	18	DSU	-----	-----
Asian/Pacific Islander	800	423.9	394.3	453.4	855	409.5	382.0	437.1
Black/African American	482	451.3	411.0	491.6	430	386.2	349.7	422.7
Hispanic/Latino	1,497	610.2	579.1	641.3	1,487	560.2	531.5	588.8
White	17,129	1057.5	1041.5	1073.4	16,421	990.8	975.5	1006.0

Hip Fracture Hospitalizations Persons Aged 65> 2002					2003			
	Female		Lower	Upper	Female		Lower	Upper
	Number	Rate <sup>1</sup>	95% C.I.	95% C.I.	Number	Rate <sup>1</sup>	95% C.I.	95% C.I.
<b>Healthy People 2010 Target</b>		<b>491.0</b>				<b>491.0</b>		
<b>CALIFORNIA TOTAL</b>	19,150	812.8	801.3	824.4	18,623	771.8	760.6	782.9
<b>Race-Ethnicity</b>								
American Indian/Alaska Native	28	259.7	163.5	355.9	32	264.5	172.8	356.1
Asian/Pacific Islander	840	370.4	345.3	395.5	912	374.0	349.7	398.3
Black/African American	432	374.3	339.0	409.6	379	321.2	288.9	353.6
Hispanic/Latino	1,486	517.5	491.1	543.9	1,597	517.8	492.4	543.3
White	15,791	934.1	919.4	948.8	15,203	890.7	876.4	905.0

Sources: CA Department of Health Services, OSHPD Patient Discharge Data, 2000-2003;  
CA Department of Finance, Demographic Research Unit, Population Projections by Race/Ethnicity for  
California and Its Counties 2000-2050, May 2004.

Notes: \* ICD-9-CM code 820; Principal E-Code.

<sup>1</sup> Rate per 100,000 females, age-adjusted using the 2000 US Standard Population.

DSU Data statistically unreliable based on small number of events

**Table 15-28b**  
**Hip Fracture Hospitalizations Among Males Aged 65 and Over**  
**California, 2000-2003**

Hip Fracture Hospitalizations Persons Aged 65> 2000					2001			
	Male		Lower	Upper	Male		Lower	Upper
	Number	Rate <sup>1</sup>	95% C.I.	95% C.I.	Number	Rate <sup>1</sup>	95% C.I.	95% C.I.
<b>Healthy People 2010 Target</b>		<b>450.5</b>				<b>450.5</b>		
<b>CALIFORNIA TOTAL</b>	6,918	479.5	468.2	490.8	6,965	460.0	449.2	470.8
<b>Race-Ethnicity</b>								
American Indian/Alaska Native	7	DSU	-----	-----	6	DSU	-----	-----
Asian/Pacific Islander	256	185.4	162.5	208.2	271	178.1	156.8	199.4
Black/African American	197	302.5	259.6	345.3	196	286.1	245.6	326.7
Hispanic/Latino	570	344.3	315.5	373.1	557	306.4	280.5	332.3
White	5,636	532.6	518.6	546.5	5,676	518.8	505.3	532.3

Hip Fracture Hospitalizations Persons Aged 65> 2002					2003			
	Male		Lower	Upper	Male		Lower	Upper
	Number	Rate <sup>1</sup>	95% C.I.	95% C.I.	Number	Rate <sup>1</sup>	95% C.I.	95% C.I.
<b>Healthy People 2010 Target</b>		<b>450.5</b>				<b>450.5</b>		
<b>CALIFORNIA TOTAL</b>	6,880	434.4	424.1	444.6	6,786	414.1	404.2	424.0
<b>Race-Ethnicity</b>								
American Indian/Alaska Native	7	DSU	-----	-----	13	DSU	-----	-----
Asian/Pacific Islander	298	177.7	157.4	197.9	311	174.4	154.9	193.8
Black/African American	185	250.8	214.1	287.5	173	235.5	200.0	271.1
Hispanic/Latino	600	303.0	278.4	327.6	622	292.0	268.8	315.2
White	5,584	495.2	482.2	508.2	5,489	476.4	463.8	489.0

Sources: CA Department of Health Services, OSHPD Patient Discharge Data, 2000-2003;  
CA Department of Finance, Demographic Research Unit, Population Projections by Race/Ethnicity for California and Its Counties 2000-2050, May 2004.

Notes: \* ICD-9-CM code 820; Principal E-Code.

<sup>1</sup> Rate per 100,000 males, age-adjusted using the 2000 US Standard Population.

DSU Data statistically unreliable based on small number of events